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[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Apr
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[File 136] **BioEngineering Abstracts** 1966-2007/Jan
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(c) 2007 American Mathematical Society. All rights reserved.

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec
(c) 2006 The Thomson Corp. All rights reserved.

```
Set       Items     Description
S1        6998551   S IMAGE?? OR IMAGING OR X()RAY OR CT()SCAN? OR MEDICAL()IMAG? OR
GRAPHIC
S2        81628     S (POINT?? OR COORDINATE?? OR ORDINATE?? OR MARK??? OR
LAND()MARK?)(3N)S1
S3        737       S (REFERENCE?? OR SUPINE OR PRONE)(3N)S2
S4        0         S (1()D OR (ONE OR 1 OR SINGLE)(1N)DIMENSION?)(3N)(PLOT? OR PROFILE??
OR MAP? OR GRAPH? OR CURVE??)(3N)S3
S5        0         S (CORRELATION OR RELAT? OR CORRESPOND? OR COMPARE?? OR COMPARING OR
COMPARISON?? OR MATCH??? OR RELATIONSHIP OR ASSOCIAT??? OR CORRELAT???)(10N)S4
S6        313       S AU=(SIROHEY, S? OR SIROHEY S? OR AVINASH, G? OR AVINASH G? OR
KNOPLIOCH, J? OR KNOPLIOCH J? OR LAUNAY, L? OR LAUNAY L? OR CAPOLUNGHI, R? OR
CAPOLUNGHI R?)
S7        0         S (1()D OR (ONE OR 1 OR SINGLE)(1N)DIMENSION?)(3N)(PLOT? OR PROFILE??
OR MAP? OR GRAPH? OR CURVE??)(20N)S3
S8        0         S ((1()D OR (ONE OR 1 OR SINGLE)(3N)DIMENSION?)(3N)(PLOT? OR PROFILE??
OR MAP? OR GRAPH? OR CURVE??))(20N)S3
S9        90        S (CORRELATION OR RELAT? OR CORRESPOND? OR COMPARE?? OR COMPARING OR
COMPARISON?? OR MATCH??? OR RELATIONSHIP OR ASSOCIAT??? OR CORRELAT???)(3N)S3
S10       58        RD  (unique items)
S11       0         10
S12       0         1
S13       0         D
S14       0         1(W)D
S15       0         ONE
S16       0         DIMENSIONAL
S17       0         ONE(W)DIMENSIONAL
S18       0         GRAPH
S19       0         PLOT
S20       0         S S10 AND S6
S21       0         S S10 AND ((PRONE OR SUPINE)(3N)PLOT?)
S22       1         S ((PRONE OR SUPINE)(3N)PLOT?)(3N)MAP?
S23       0         S S22 NOT FLOOD
S24       21        S S9 AND (CORRELAT? OR LANDMARK?)
S25       11        RD  (unique items)
S26       2         S S25 AND MAP?
```

25/3,K/1 (Item 1 from file: 2) **Links**
   Fulltext available through: <u>USPTO Full Text Retrieval Options</u>
INSPEC
09716613
Title: A consistent decision algorithm for N frames continuous scene matching
Author Wang Yong-Ming

Abstract: ...matching is a crucial technique for many cruise aircrafts to correct their navigation errors. By **correlation** matching between loaded reference image and real-time image in the same area, the navigation... ...and precise positioning is implemented accordingly. Since the difference in acquisition sensor and time for **reference** and real-time **image**, the true **matched points** are sometimes not on the primary peaks but on the secondary peaks of **correlation** matrix, which resulted in the matching was to fail. In this paper, a consistent decision... ...algorithm is to make use of the information of the primary and secondary peaks of **correlation** matrix and the displacement of inertial guidance to delete false matched points. Since the information...
Identifiers: ...**correlation** matching... ...**correlation** matrix

25/3,K/2 (Item 2 from file: 2) **Links**
    Fulltext available through: USPTO Full Text Retrieval Options
INSPEC

09692649

Abstract: ...the redundant information from multiple two-dimensional (2-D) projections of the object. First, a **correlation** scheme on pixels gray level is used to extract the vessel structure on every projection... ...image. Thirdly, an arbitrary projection is chosen as base image, and others are chosen as **reference images**. For each key **point** in the base **image**, the **matching points** are found from the key points of the reference images according to epipolar geometry and...
Identifiers: ...**correlation** scheme

25/3,K/3 (Item 3 from file: 2) **Links**
    Fulltext available through: USPTO Full Text Retrieval Options
INSPEC

08682242 **INSPEC Abstract Number:** A2003-16-4230-041, B2003-08-6135-173

Abstract: We propose a new algorithm for automated registration of satellite images. Registration means finding the **relation** between **image coordinates** and a **reference** coordinate system. The algorithm consists of two steps. The first one is the automated generation of control points. An automated matching based on normalized cross **correlation** is used. We have improved the accuracy of matching by determining the size and shape...

25/3,K/4 (Item 4 from file: 2) **Links**
Fulltext available through: USPTO Full Text Retrieval Options
INSPEC
08615570   INSPEC Abstract Number: B2003-06-6135C-131, C2003-06-1260S-025
Title: An image-adaptive digital watermarking algorithm based on wavelet transform
Author Liu Tong; Qiu Zheng-Ding
Author Affiliation: Inst. of Inf. Sci., Northern Jiaotong Univ., Beijing, China
Journal: Chinese Journal of Computers   vol.25, no.11   p. 1195-9
Publisher: Science Press ,
Publication Date: Nov. 2002 **Country of Publication:** China
CODEN: JIXUDT **ISSN:** 0254-4164
SICI: 0254-4164(200211)25:11L.1195:IADW;1-7
   Material Identity Number: B714-2003-002
Language: Chinese
 Subfile: B C
Abstract: ...alarm and missed detection rate, and the embedded watermark can be blindly detected using the **correlation** value between the **marked image** and **reference** watermark sequence. Simulation results show that the proposed method can achieve a better compromise between...
Identifiers: ...**correlation** value

25/3,K/5 (Item 5 from file: 2) **Links**
INSPEC
08591140   INSPEC Abstract Number: B2003-05-6135-211, C2003-05-5260B-299
Title: A new approach for 3D surface reconstruction in urban environment from multiple aerial images
Author Saoud, H.; Belhadj, Z.; Boussema, M.-R.; Roux, M.
Author Affiliation: Ecole Nationale d'Ingenieurs de Tunis, LTSIRS, Tunis, Tunisia
 Conference Title: Proceedings of Second IASTED International Conference Visualization, Imaging, and Image Processing   p. 568-72
Editor(s): Villanueva, J.J.
Publisher: ACTA Press , Anaheim, CA, USA
Publication Date: 2002 **Country of Publication:** USA   vi+832 pp.
ISBN: 0 88986 354 3   **Material Identity Number:** XX-2002-02291
Conference Title: VIIP 2002: 2nd IASTED International Conference on Visualization, Imaging and Image Processing
Conference Sponsor: IASTED
Conference Date: 9-12 Sept. 2002   **Conference Location:** Malaga, Spain
Language: English   .
 Subfile: B C
Abstract: ...images are rectified in epipolar geometry. Our approach of reconstruction is based on fusion of **correlation** curves calculated from different image pairs. Those curves given traditionally according to disparity are projected in 3D space. Then, 3 criteria of fusion have been tested to calculate for each **point** of the **reference image** the **corresponding** elevation.
Identifiers: ...**correlation** curves

25/3,K/6 (Item 6 from file: 2) **Links**
INSPEC
08374947   INSPEC Abstract Number: B2002-10-7230G-034, C2002-10-3390C-125
Title: Natural landmark based localisation system using panoramic images
Author Yuen, D.C.K.; MacDonald, B.A.
Author Affiliation: Dept. of Electr. & Electron. Eng., Auckland Univ., New Zealand

Conference Title: Proceedings 2002 IEEE International Conference on Robotics and Automation (Cat. No.02CH37292) **Part** vol.1   p. 915-20 vol.1
Publisher: IEEE , Piscataway, NJ, USA
Publication Date: 2002 **Country of Publication:** USA 4 vol.lxxiv+4353 pp.
ISBN: 0 7803 7272 7   **Material Identity Number:** XX-2002-01942
U.S. Copyright Clearance Center Code: 0-7803-7272-7/02/$17.00
Conference Title: Proceedings 2002 IEEE International Conference on Robotics and Automation
Conference Sponsor: IEEE Robotics & Autom. Soc
Conference Date: 11-15 May 2002   **Conference Location:** Washington, DC, USA
Language: English
 Subfile: B C
 Copyright 2002, IEE
Title: Natural landmark based localisation system using panoramic images
Abstract: ...robot and tested in a heavily cluttered environment. It takes vertical object edges as natural landmarks and extracts a one-dimensional token sequence from the input image before matching with reference image sequences. Matched points are then triangulated to give a set of position estimates, and the best result is...
Identifiers: natural landmark based localisation system...

25/3,K/7 (Item 7 from file: 2) **Links**
   Fulltext available through: SPIE - The International Society of Optical Engineering   USPTO Full Text Retrieval Options
INSPEC
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06858020   **INSPEC Abstract Number:** B9804-7950-039
Title: Tracking targets in FLIR images by region template correlation
Author Parry, H.S.; Marshall, A.D.; Markham, K.C.
Author Affiliation: Dept. of Flight Dynamics, BAe. Dynamics Ltd., Bristol, UK
Journal: Proceedings of the SPIE - The International Society for Optical Engineering **Conference Title:** Proc. SPIE - Int. Soc. Opt. Eng. (USA)   vol.3086   p. 221-32
Publisher: SPIE-Int. Soc. Opt. Eng ,
Publication Date: 1997 **Country of Publication:** USA
CODEN: PSISDG **ISSN:** 0277-786X
SICI: 0277-786X(1997)3086L.221:TTFI;1-T
   Material Identity Number: C574-97192
U.S. Copyright Clearance Center Code: 0277-786X/97/$10.00
Conference Title: Acquisition, Tracking, and Pointing XI
Conference Sponsor: SPIE
Conference Date: 23-24 April 1997   **Conference Location:** Orlando, FL, USA
Language: English
 Subfile: B
 Copyright 1998, IEE
Title: Tracking targets in FLIR images by region template correlation
Abstract: ...inside a missile moving directly towards the target. Many conventional image based trackers trace key reference points over an image sequence using simple correlation processes. However, the presence of noise and the magnification of image features as the camera ... ...FLIR missile guiding systems, is that regions become divided and therefore there may be little correlation between regions in one frame and the next. This paper introduces a new method that... ...target may be located in a future frame by employing a novel method of performing correlation of the template with a segmented image. For the current design, the target template is... ...detected. This new technique produces significant reductions in drift rate compared to a conventional point correlation tracker. Results acquired for real FLIR images obtained from an aircraft are presented.
Descriptors: correlation methods...
Identifiers: ...region template correlation; ... ...point correlation tracker

25/3,K/8 (Item 1 from file: 5) **Links**
   Fulltext available through: USPTO Full Text Retrieval Options
Biosis Previews(R)
(c) 2007 The Thomson Corporation. All rights reserved.
17500636   **Biosis No.:** 200300469355
A new point-based warping method for enhanced and simplified analysis of functional brain image data.

Author: Pielot Rainer (Reprint); Scholz Michael; Obermayer Klaus; Scheich Henning; Gundelfinger Eckart D; Hess Andreas
Author Address: Leibniz Institute for Neurobiology, Brenneckestrasse 6, D-39118, Magdeburg, Germany**Germany

Abstract: ...to optimize matching of data sets, can exploit either local gray value distribution or identifiable **reference points** within the **images** to be **compared**. Gray value-based warping, which is more comfortable, cannot be used if gray values include... ...warping methods is the lack of methods for efficient and precise definition of reference points (**landmarks**) within comparable data sets. Here, we present a novel approach to automatically detect sufficient numbers of **landmarks**, which is based on 3D differential operators. In addition, we have developed a new distance... ...gerbil brains after acoustic stimulation. The new warping method was compared with known methods of **landmark**-based warping, i.e., warping with radial basis functions and with distance-weighted methods. For... ...presented in this study our new optimized warping method produced an increase in linear cross **correlation** of 4.44%, an increase in volume overlap index of 1.55%, and a decrease...

25/3,K/9 (Item 1 from file: 6) **Links**
   Fulltext available through: Check for PDF Download Availability and Purchase
NTIS
Parallel Algorithm for Dominant Points Correspondences in Robot Binocular Stereo Vision

Al-tammami, A. ; Singh, B.
Bradford Univ. (England).
Corporate Source Codes: 058195000; BV290280
Sponsor: National Aeronautics and Space Administration, Washington, DC.

...dominant point in the right image lies in the search areas, then it is the **corresponding** point of the **reference** dominant **point** in the left **image**. A parameter provided by the GAV is thresholded and used as a rough similarity measure... ...corresponding dominant point if there is more than one point in the search area. The **correlation** is used as a final decision tool when there is still more than one point... ...in the search area or if the points in the search area are below a **correlation** threshold, then the dominant point in the reference image is occluded and can not be...

25/3,K/10 (Item 1 from file: 8) **Links**
   Fulltext available through: ScienceDirect
Ei Compendex(R)
10575538 **E.I. No:** EIP05349316477
Title: Reconstruction of rotary DSA vessel axis based on the matching of multiple projections

Author: Hong, Wei; Mou, Xuanqin; Tang, Shaojie; Long, Ying; Cai, Yuanlong
Corporate Source: School of Electronics and Information Engineering Xi'an Jiaotong University, Xi'an, Shaanxi, 710049, China
Abstract: ...the redundant information from multiple two-dimensional (2-D) projections of the object. First, a **correlation** scheme on pixels gray level is used to extract the vessel structure on every projection... ...image. Thirdly, an arbitrary projection is chosen as base image, and others are chosen as **reference images**. For each key **point** in the base **image**, the **matching points** are found from the key points of the reference images according to epipolar geometry and...
Descriptors: *Angiography; Image reconstruction; Image analysis; Optical **correlation**; Biological organs; Interpolation;

Algorithms; Computational geometry; Graph theory

25/3,K/11 (Item 2 from file: 8) **Links**
   Fulltext available through: ScienceDirect
Ei Compendex(R)

09467945 **E.I. No:** EIP03317569984
Title: Automatic satellite image registration by combination of matching and random sample consensus

Author: Kim, Taejung; Im, Yong-Jo
Corporate Source: Satellite Technology Research Center Korea Adv. Inst. Sci. and Technol., 305-701 Taejon, South Korea
Abstract: ...propose a new algorithm for automated registration of satellite images. Here, registration means finding the **relation** between **image coordinates** and a reference coordinate system. The algorithm consists of two steps. The first one is the automated generation of control points. An automated matching based on normalized cross **correlation** will be used. We have improved the accuracy of matching by determining the size and...

EAST Search History

S27	5997	382/128,131,154,168,294.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:22
S28	29	S26 and S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:32
S29	131	S26 and colon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:32
S30	110	S29 not S28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:32